

**Abstract**

A method, system, and computer program product are provided for detecting at least one signal of interest within an input signal. At least one set of samples from  
5 the input signal is multiplied by at least one set of samples representing a complex conjugate of the input signal to obtain a series of correlation samples. Sets of one or more consecutive correlation samples are summed to obtain a series of pulse sums. A plurality of non-  
10 consecutive pulse sums are integrated to obtain a search value.